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CLAIMS:

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1. A medical device for controlled release of one or more substances into a body cavity containing an electrolytic fluid comprising:

(a) a power supply having first and second terminals;

- (b) a plurality of blister-like vesicles mounted on a first surface, each vesicle having at least a metallic portion formed from a first metal;
- (c) for each vesicle, an electrical connection between the metallic portion of the vesicle and the first terminal of the power supply, each connection including a switch so as to allow the metallic portion to function as an anode when the switch is closed; and
- (d) A cathode formed from a second metal attached to the second terminal of the power supply;

wherein the cathode is separated from the anodes by a space that is assessable by the electrolytic fluid when the device is in the body cavity.

- 2. The device according to Claim 1 further comprising a processor configured to close one or more switches at one or more predetermined times.
- 3. The device according to Claim 1 further comprising one or more magnetizable particles.
- 20 **4.** The device according to Claim 1 wherein the switches are closed by means of a remote control.
 - 5. The device according to Claim 1, wherein the body cavity is a urinary bladder or a digestive tract organ.
- 6. The device according to Claim 1 wherein the anodes are formed from copper and the cathode is formed from zinc.
 - 7. The device according to Claim 1 further comprising an inflatable balloon.
 - 8. The device according to Claim 7, wherein the balloon is formed with a magnetizable portion.
- 9. The device according to Claim 7 or 8 in which the balloon further comprises a self-sealing valve.

- 10. The device according to any one of Claims 7 to 9, wherein the device after inflation of the balloon floats in the electrolytic fluid.
- 11. The device according to any one of Claims 7 to 9, wherein the device after inflation of the balloon sinks in the electrolytic fluid.
- The device according to any one of the previous claims wherein one or more of the one or more substances are drugs or antibiotics.
 - 13. The device according to any one of the previous claims wherein one or more of the one or more substances are radioactive substances.
- 14. The device according to any one of the previous claims, further comprising one or more monitoring devices for parameters in the body cavity.
 - 15. The device according to Claim 14, wherein one or more of the one or more of the monitoring devices monitors a parameter of the body cavity selected from the list comprising:
 - (a) pressure of the electrolytic fluid;

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- (b) temperature of the electrolytic fluid;
- (c) density of the electrolytic fluid; and
- (d) composition of the electrolytic fluid.
- 16. The device according to Claim 14 or 15 further comprising a processor configured to receive data from a monitoring device and to close one or more switches when under predetermined conditions in the body cavity.
 - 17. A system for treating a body cavity of an individual, the system comprising:
 - (a) a device according to any one of the previous claims; and
 - (b) an applicator for inserting the device into the body or for removing the device from the body cavity, the applicator fitted at an end thereof with a gripping device for releasably gripping the device;
 - 18. A system for treating a body cavity of an individual, the system comprising:
 - (a) a device according to any one of Claims 7 to 16;
- (b) an applicator for inserting the device into the body or for removing the device from the body cavity, the applicator fitted at an end thereof with a gripping device for releasably gripping the device; and

- (c) an inflating device for inflating the balloon.
- 19. The system according to Claim 17 or 18 further comprising a magnetizable displacing member for displacing the device within the body cavity.
- 20. The system according to any one of Claims 17 to 19, further comprising an immobilizing member comprising a magnetizable portion, said immobilizing member being secured onto the individual's body for immobilizing the device at a desired location in the body cavity.
 - 21. The system according to Claim 20, wherein the immobilizing member is in the form of a hygienic pad configured to be placed in a garment of the individual.
- 10 **22.** The system according to any one of Claims 17 to 21, wherein the gripping device comprises flanges.
 - 23. The system according to any one of Claims 17 to 22, wherein the gripping device comprises a magnetizable portion.
 - 24. The system according to Claim 18, wherein the inflating device comprises an injector for injecting a fluid into the balloon so as to expand the balloon.
 - 25. A method for releasing one or more substances into a body cavity containing an electrolytic fluid of an individual comprising the steps of:
 - (a) loading the one or more substances into the vesicles of a device according to any one of Claims 1 to 16;
 - (b) inserting the device into the body cavity;

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- (c) expanding the balloon in the urinary bladder; and
- (d) displacing the balloon within the urinary bladder to a desired location.
- 26. A method for releasing one or more substances into a body cavity containing an electrolytic fluid of an individual comprising the steps of:
 - (a) loading the one or more substances into the vesicles of a device according to any one of Claims 7 to 11;
 - (b) inserting the device into the body cavity; and
 - (c) expanding the balloon in the body cavity.

- 27. The method according to Claim 25 or 26 further comprising displacing the device within the body cavity to a desired location.
- **28.** The method according to any one of Claims 25 to 27 wherein one or more of the one or more substances are selected from the list comprising:
 - (a) drugs;

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- (b) immunoglobulins
- (b) antibiotics; and
- (c) radioactive substances.